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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/872,659	05/31/2001	David P. Jablon	155607-0332	2773
7590 11/24/2004		EXAMINER		
Phoenix Technologies Ltd. 915 Murphy Ranch Rd.			NALVEN, ANDREW L	
Milpitas, CA			ART UNIT	PAPER NUMBER
,			2134	

DATE MAILED: 11/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Annling	ias Na	A 11 + (-)				
Office Action Summary		Applicat		Applicant(s)				
		09/872,6		JABLON, DAVID				
		Examine	er	Art Unit				
		Andrew L		2134				
Period fo	- The MAILING DATE of this communic r Reply	ation appears on th	ie cover sheet v	vith the correspondence add	ress			
THE N - Exter after: - If the - If NO - Failur Any r	DRTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNIC sions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication for reply specified above is less than thirty (30) period for reply is specified above, the maximum statuse to reply within the set or extended period for reply weply received by the Office later than three months after different term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no e nication. days, a reply within the stautory period will apply and will, by statute, cause the ap	vent, however, may a atutory minimum of th will expire SIX (6) MO oplication to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this con. BANDONED (35 U.S.C. § 133).	nmunication.			
Status								
1) 🛛	Responsive to communication(s) filed	on 31 May 2001.						
• ==:			nis action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-17,19,20,22 and 23 is/are rejected. 7) Claim(s) 3, 8, 13,18,21 and 24 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Applicati	on Papers							
10)⊠	The specification is objected to by the The drawing(s) filed on 31 May 2001 is Applicant may not request that any object Replacement drawing sheet(s) including the oath or declaration is objected to	s/are: a)⊠ accept ion to the drawing(s) he correction is requi	be held in abeya ired if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFF	• •			
Priority u	nder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority d 2. Certified copies of the priority d 3. Copies of the certified copies of application from the Internation ee the attached detailed Office action	ocuments have be ocuments have be f the priority docum al Bureau (PCT Ru	en received. en received in a nents have been ule 17.2(a)).	Application No n received in this National S	Stage			
Attachment			A) 🗖 1-4	Summary (DTO 142)				
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or P · No(s)/Mail Date <u>4/5/02</u> .		Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO	.152)			

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DETAILED ACTION

1. Claims 1-24 are pending.

Specification

2. The abstract of the disclosure is objected to because the provided abstract is too long. The recommended length of an abstract is 150 words or less. Correction is required. See MPEP § 608.01(b).

Claim Objections

3. Claims 3, 8, and 13 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claim 8 recites the limitation "the software" in line 1. There is insufficient antecedent basis for this limitation in the claim.

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Claim Rejections - 35 USC § 102

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6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 7. Claims 1-4, 6-9, 11-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Ford et al "Server-Assisted Generation of a Strong Secret from a Password."
- 8. With regards to claims 1, 3, 6, 8, 11, 13, Ford teaches a client computer (Ford, Page 176, Abstract), a network interconnecting the client computer and plurality of authentication servers (Ford, Page 176, Abstract), software running on the client computer and plurality of authentication servers that cooperates to enter a password on the client (Ford, Page 178, column 1 paragraph 2), store a unique random value yi on each of the servers (Ford, Page 178, column 1 paragraph 2, "Du"), derive a group element P from the password (Ford, Page 178, column 1 paragraph 4 step 1, "P"), send a blinded password value Px to the servers (Ford, Page 178, column 1 paragraph 4 step 1, "r"), retrieve blinded key shares Pxyi from the servers (Ford, Page 178, column 1 paragraph 4 steps 2-3, "s"), unblind and combine the shares to create a master key Km (Ford, Page 178, column 1 paragraph 4 step 3, "R" and page 177 column 2 paragraph

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2), and decrypt encrypted private data on the client computer using the master key Km (Ford, page 177 column 1 paragraph 2).

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- 9. With regards to claims 2, 7, 12, Ford teaches the software operating on the client operating to validate the master key (Ford, page 178 column 2 paragraph 2).
- 10. With regards to claims 4, 9, 14, Ford teaches the software operating on the client operates to decrypt encrypted private data using the validated master key (Ford, page 177 column 1 paragraph 2).

Claim Rejections - 35 USC § 103

- 11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 12. Claims 16, 19, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ford et al "Server-Assisted Generation of a Strong Secret from a Password" in view of Coleman US Patent No. 5,717,756.
- 13. With regards to claims 16, 19, and 22, Ford teaches all that is described above and further teaches the maintaining of a count of bad login attempts (Ford, Page 177, column 1 paragraph 4, some number of failures, page 177 column 2 paragraph 4, number of password hardenings), the number of recent amplifications (Ford, Page 177, column 1 paragraph 4, number of failures, page 177 column 2 paragraph 4), and checking to see if a user account is locked (Ford, Page 177, column 1 paragraph 4, lock

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out). Ford fails to teach the storage of recent Px password amplification request values and a list of timestamps associated with them. Coleman teaches a list of recent values from a client being stored by the server (Coleman, column 9 line 63 – column 10 line 10), and a list of timestamps associated with the list of values on the server (Coleman, column 9 line 63 – column 10 line 10). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Coleman's method of storing values at the server because it increases security by helping prevent replay attacks (Coleman, column 10 line 66 – column 10 line 3).

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- 14. Claims 17, 20, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ford et al "Server-Assisted Generation of a Strong Secret from a Password" and Coleman US Patent No. 5,717,756, as applied to claim 16 above, and further in view of Lipner et al US Patent No. 5,557,346 and Danieli US Patent No. 6,510,513.
 - 15. With regards to claims 17, 20, and 23, Ford as modified teaches the incrementing of the count of bad attempts (Ford, Page 177, column 1 paragraph 4, number of failures). Ford fails to teach the recording of the timestamp, the periodic checking for stale requests, and the deleting of requests. Danieli teaches the recording of a time stamp to note the time when a request was received (Danieli, column 3 lines 16-24). Lipner teaches periodically checking for stale requests that are determined when the difference between any timestamp value and the current time becomes greater than a specific period of time (Lipner, column 14 lines 59-67), and deletes

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corresponding password amplification request values and timestamps (Lipner, column 14 lines 59-67). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Danieli's method of time stamping and Lipner's method of checking for stale requests with Ford as modified because it offers the advantage of ensuring knowledge of the creation time of data (Danieli, column 3 lines 16-24) and ensuring that no secret information survives past its expiration (Lipner, column 14 lines 59-67).

Allowable Subject Matter

- 16. Claims 5, 10, 15, 18, 21, and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 17. The following is a statement of reasons for the indication of allowable subject matter: The cited prior art fails to specifically teach or suggest the sending of the value of Qa and any prior values of Qa from earlier runs in the same login session to each server in an encrypted message or the sending of proof of the validated master key (Km) and each blinded password value Px to the servers.

Conclusion

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- 19. Ganesan US Patent No. 5,535,276 discloses an improved system for securing communication using split private key asymmetric cryptography.
- 20. Thomlinson et al US Patent No. 6,044,155 discloses a method for securely archiving core data secrets.
- 21. Guthrie et al US Patent No. 6,161,185 discloses a personal authentication system and method for multiple computer platforms.
- 22. Jablon US Patent No. 6,226,383 discloses cryptographic methods for remote authentication.
- 23. Connery et al US Patent No. 6,311,276 dislcoses a secure system for remote management and wake up commands.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L Nalven whose telephone number is 571 272 3839. The examiner can normally be reached on Monday - Thursday 8-6, Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on 703 308 4789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Andrew, Nalven

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